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Attorney Docket No.: GC700	Serial No.: 10/028,245	FEB 05 2003
Applicant: Dunn-Coleman et al.		
Filing Date: December 18, 2001	Group: 1645	TECH CENTER 1600/2900
Page <u>1</u> of <u>7</u>	Date of this Submission: January 30, 2003	

US PATENT DOCUMENTS

Examiner's	Document				Sub-	Filing
Initial	Number	Date	Name	Class	Class	Date
mmr	4,816,567	3/28/89	Cabilly et al.	530	387	4/8/83
	4,822,516	4/18/89	Suzuki et al.	252	174.12	12/2/87
	6,162,782	12/19/00	Clarkson et al.	510	320	6/5/95
	6,184,018	2/6/01	Li et al.	435	209	5/6/99
	5,648,263	7/15/97	Schulein et al.	435	263	5/30/95
	5,691,178	11/25/97	Schulein et al.	435	209	6/7/95
	5,776,757	7/7/98	Schulein et al.	435	209	5/30/95
	5,475,101	12/12/95	Ward et al.	536	23.74	3/17/93
mmr	4,435,307	3/6/84	Barbesgaard et al.	252	174.12	4/23/81

FOREIGN PATENT DOCUMENTS

Examiner's	Document				Sub-	Translation
Initials	Number	Date	Country	Class	Class	Yes/No
mmr	GB 2 095 275 A	9/29/82	United Kingdom	—	—	
	GB 2 094 826 A	9/22/82	United Kingdom	—	—	
	WO 91/04673	4/18/91	PCT	—	—	
	1,368,599	10/2/74	United Kingdom	—	—	
mmr	0 562 003 B1	9/4/02	EP	—	—	

Examiner	Date Considered
mmr	2/2/03

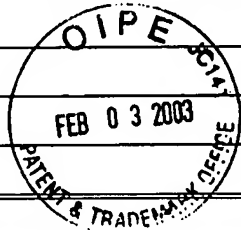
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OTHER DOCUMENTS

Examiner's	
Initials	Author, Title, Date, Pertinent Pages, etc.
mmr	Altschul, Stephen F. et al., "Basic Local Alignment Search Tool," J. Mol. Biol. 215:403-410, 1990.
mmr	Altschul, Stephen F. et al., "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs," Nucl. Acids Res., vol. 25, pp. 3389-3402, 1997.
mmr	Aro, Nina et al., "ACEII, a Novel Transcriptional Activator Involved in Regulation of Cellulase and Xylanase Genes of <i>Trichoderma reesei</i> ," J. Biol. Chem., vol. 276, no. 26, pp. 24309-24314, June 29, 2001.
mmr	*Aubert, et al., Ed., p11 et seq., Academic Press, 1988.
mmr	*Ausubel, G. M. et al. Current Protocols in Molecular Biology, John Wiley & Sons, New York, NY, 1993. Page Nos. 2
mmr	Baldwin, Don et al., Curr. Opin. Plant Biol. 2(2):96-103, 1999.
mmr	Barnett, Christopher et al. "Cloning and Amplification of the Gene Encoding an Extracellular β -Glucosidase from <i>Trichoderma reesei</i> : Evidence for Improved Rates of Saccharification of Cellulosic Substrates,"
mmr	Baulcombe, D., "Viruses and gene silencing in plants," 100 Years of Virology, Calisher and Horzinek eds., Springer-Verlag, New York, NY 15:189-201, 1999.
mmr	Bhikhabhai, R. et al., "Isolation of Cellulolytic Enzymes from <i>Trichoderma reesei</i> QM 9414," J. Appl. Biochem. 6:336-345, 1984.
mmr	Brumbauer, Aniko et al., Fractionation of cellulase and β -glucosidase in a <i>Trichoderma reesei</i> culture liquid by use of two-phase partitioning," Bioseparation 7:287-295, 1999.
mmr	Carter, Paul et al., "Improved oligonucleotide site-directed mutagenesis using M13 vectors," Nucleic Acids Research, vol. 13, no. 12, pp. 4431-4443, 1985.
mmr	Cees, Am. M. et al., "Heterologous Gene Expression in Filamentous Fungi," More Gene Manipulations in Fungi, Bennett and Lasure, ed., pp. 397-428, 1991.
mmr	Chen, Huizhong et al., "Purification and characterization of two extracellular β -glucosidases from <i>Trichoderma reesei</i> " Biochem et Biophysica Acta 1121:54-60 (1992)
mmr	*Coligan, J. E. et al., eds., Current Protocols in Immunology, 1991 Page Nos. 1
mmr	Collen, Anna et al., Journal of Chromatography A 910:275-284, 2001.
mmr	Coughlan, Michael et al., "Comparative Biochemistry of Fungal and Bacterial Cellulolytic Enzyme Systems" Biochemistry and Genetics of Cellulose Degradation, pp. 11-30 1988.
mmr	Cummings, C. et al., "Secretion of <i>Trichoderma reesei</i> β -glucosidase by <i>Saccharomyces cerevisiae</i> ," Curr. Genet. 29:227-233, 1996.

Examiner	Date Considered
mmr	7/2/03
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Page <u>3</u> of <u>7</u>	Date of this Submission: January 30, 2002	

OTHER DOCUMENTS

Examiner's	
Initials	Author, Title, Date, Pertinent Pages, etc.
mm2 ✓	Dayhoff, M.O. et al., "A Model of Evolutionary Change in Proteins," Atlas of Protein Sequence and Structure, National Biomedical Research Foundation, Washington, D.C., vol. 5, Supplement 3, Chapter 22, pp. 345-352 1978.
mm2 ✓	Deutscher, Murray P., "Rethinking Your Purification Procedure," Methods in Enzymology, vol. 182, no. 57, pp. 779, 1990.
	*Dee Little, R. F., Of ORFs and ORFs , University Science Books, CA, 1986. Page NOS ?
mm2 ✓	Ellouz, S. et al., "Analytical Separation of <i>Trichoderma Reesei</i> Cellulases by Ion-Exchange Fast Protein Liquid Chromatography," J. Chromatography 396:307-317, 1987.
✓	Fields, Stanley et al., "A novel genetic system to detect protein-protein interactions," Nature, 340:245-246, 1989.
✓	Filho, Edivaldo, "Purification and characterization of a β -glucosidase from solid-state cultures of <i>Humicola grisea</i> var. <i>thermoidea</i> ," Can. J. Microbiol. 42:1-5, 1996.
✓	Fliess, A. et al., "Characterization of Cellulases by HPLC Separation," Eur. J. Appl. Microbiol. Biotechnol. 17:314-318, 1983.
mm2 ✓	Freer, Shelby, "Kinetic Characterization of a β -Glucosidase from a Yeast, <i>Candida wickerhamii</i> ," J. Biol. Chem. vol. 268, no. 13, pp. 9337-9342, 1993.
✓	*Freshney, R. I., ed., Animal Cell Culture, 1987 Page NOS. ?
mm2 ✓	Goyal, Anil et al. "Characteristics of Fungal Cellulases," Bioresource Technol. 36:37-50, 1991.
✓	Halldorsdottir, S et al., "Cloning, sequencing and overexpression of a <i>Rhodothermus marinus</i> gene encoding a thermostable cellulase of glycosyl hydrolase family 12," Appl Microbiol Biotechnol. 49(3):277-84, 1998.
✓	Hemmpel, W.H., "The surface modification of woven and knitted cellulose fibre fabrics by enzymatic degradation," ITB Dyeing/Printing/Finishing 3:5-14, 1991.
✓	Henrissat, Bernard et al., "New families in the classification of glycosyl hydrolases based on amino acid sequence similarities," Biochem. L. 293:781-788, 1993.
✓	Herr, D. et al., "Purification and Properties of an Extracellular β -Glucosidase from <i>Lenzites trabea</i> ," Europ an Appl. Microbiol. Biotechnol. 5:29-36, 1978.
✓	Hu, Qianjin et al., "Antibodies Specific for the Human Retinoblastoma Protein Identify a Family of Related Polypeptides," Mol Cell Biol. vol.11, no. 11, pp. 5792-5799, 1991.
✓	Ilmen, Marja et al., "Regulation of Cellulase Gene Expression in the Filamentous Fungus <i>Trichoderma reesei</i> ," Appl. and Envir. Micro., vol. 63, no. 4, pp. 1298-1306, 1997.
mm2 ✓	Jakobovits, Aya, et al., "Production of Antigen-Specific Human Antibodies from Mice Engineered with Human Heavy and Light Chain YACs ^a Annals New York Academy of Sciences, 764:525-535, 1995.
Examiner	Date Considered
mm2	2/2/03
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Page 4 of 7	Date of this Submission: January 30, 2003	

OTHER DOCUMENTS

Examiner's	Author, Title, Date, Pertinent Pages, etc.
mmk	Jakobovits, Aya, "Production of fully human antibodies by transgenic mice," <i>Curr Opin Biotechnol</i> 6(5):561-6, 1995.
✓	Jones, Peter et al., "Replacing the complementarity—determining region sin a human antibody with those from a mouse," <i>Nature</i> 321:522-525, 1986.
✓	Kawaguchi, Takashi et al., "Cloning and sequencing of the cDNA encoding β -glucosidase 1 from <i>Aspergillus aculeatus</i> ," <i>Gene</i> 173(2):287-8, 1996.
✓	Knowles, Jonathan et al., <i>TIBTECH</i> 5, 255-261, 1987.
✓	Kohler, G. et al., "Continuous cultures of fused cells secreting antibody of predefined specificity," <i>Nature</i> , vol. 256, pp. 495-499, August 7, 1975
✓	Krishna, S. Hari et al., "Simultaneous saccharification and fermentation of lignocellulosic wastes to ethanol using a thermotolerant yeast," <i>Bioresource Tech.</i> 77:193-196, 2001.
✓	Kumar, Akhil, et al., "Optimizing the Use of Cellulase Enzymes in Finishing Cellulosic Fabrics," <i>Textile Chemist and Colorist</i> , 29:37-42, 1997.
✓	Lehtio, Janne. et al., <i>FEMS Microbiology Letters</i> 195:197-204, 2001.
✓	Li, Xin-Liang et al. "Expression of <i>Aureobasidium pullulans xynA</i> in, and Secretion of the Xylanase from, <i>Saccharomyces cerevisiae</i> ," <i>Appl. Environ. Microbiol.</i> 62, no. 1, pp. 209-213, 1996.
✓	Linder, Marcus et al., "The roles and function of cellulose-binding domains," <i>Journal of Biotechnol.</i> 57:15-28, 1997
✓	Liukkonen, Pere J., et al., "Use of Purified Enzymes in Mechanical Pulping," 1996 Tappi Pulping Conference, pp. 693-696, Nashville, TN.
✓	Loftus, Joseph C. et al. "A β_3 Integrin Mutation Abolishes Ligand Binding and Alters Divalent Cation-Dependent Conformation," <i>Science</i> , vol. 245, pp. 915-921, August 24, 1990.
✓	Medve, Jozsef et al., "Ion-exchange chromatographic purification and quantitative analysis of <i>Trichoderma reesei</i> cellulases cellobiohydrolase I, II and endoglucanase II by fast protein liquid chromatography," <i>J. Chromatography A</i> 808:153-165, 1998.
✓	Nielsen, Henrik et al. "Identification of prokaryotic and eukaryotic signal peptides and prediction of their cleavage sites," <i>Protein Engineering</i> , vol. 10, no. 1, pp. 1-6, 1997.
✓	Ohmiya, Kunio et al., "Structure of Cellulases and Their Applications," <i>Biotechnol. Gen. Engineer. Rev.</i> vol. 14, pp. 365-414, 1997.
mmk	Okada, Hirofumi et al., "Molecular Characterization and Heterologous Expression of the Gene Encoding a Low-Molecular-Mass Endoglycanase from <i>Trichoderma reesei</i> QM9414," <i>Applied and Environmental Microbiology</i> , vol. 64, no. 2, pp. 555-563, 1990.
Examiner	Date Considered
mmk	7/2/03
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OTHER DOCUMENTS

Examiner's	
Initials	Author, Title, Date, Pertinent Pages, etc.
<i>mm</i>	Ooi, Toshihiko <i>et al.</i> , "Complete nucleotide sequence of a gene coding for <i>Aspergillus aculeatus</i> cellulase (FI-CMCase), Nucleic Acids Research, vol. 18, no. 19, 1990.
✓	Ortega Natividad <i>et al.</i> , "Kinetics of cellulose saccharification by <i>Trichoderma reesei</i> cellulases," International Biodeterioration and Biodegradation 47:7-14, 2001.
✓	Penttila, Merja <i>et al.</i> , "Expression of Two <i>Trichoderma reesei</i> Endoglucanases in the Yeast <i>Saccharomyces cerevisiae</i> ," Yeast vol. 3, pp 175-185, 1987.
✓	Penttila Merja <i>et al.</i> , "Efficient secretion of two fungal cellobiohydrolases by <i>Saccharomyces cerevisiae</i> ," Gene, 63: 103-112, 1988.
✓	Penttila, Merja <i>et al.</i> "Homology between cellulase genes of <i>Trichoderma reesei</i> : complete nucleotide sequence of the endoglucanase I gene," Gene, 45: 253-263, 1986.
✓	Pourquie, J. <i>et al.</i> , "Scale Up of Cellulase Production and Utilization," Biochemistry and Genetics of Cellulose Degradation, Academic Press Ltd., pp. 71-86, 1988.
✓	Riechmann, Lutz <i>et al.</i> , "Reshaping human antibodies for therapy," Nature, vol. 332, pp. 323-327, 1988.
✓	Rothstein, Steven J. <i>et al.</i> , "Synthesis and secretion of wheat α -amylase in <i>Saccharomyces cerevisiae</i> ," Gene 55:353-356, 1987.
✓	Saarihahti, Hannu T. <i>et al.</i> , "CelS: a novel endoglycanase identified from <i>Erwinia carotovora</i> subsp. <i>carotovora</i> ," Gene 90:9-14, 1990
✓	Sakamoto, S. <i>et al.</i> , "Cloning and sequencing of cellulase cDNA from <i>Aspergillus kawachii</i> and its expression in <i>Saccharomyces cerevisiae</i> ," Curr. Genet. 27:435-439, 1995.
✓	Saloheimo, Anu <i>et al.</i> "A novel, small endoglucanase gene, <i>eg15</i> from <i>Trichoderma reesei</i> isolated by expression in yeast," Molecular Microbiology, vol. 13, no. 2, pp. 219-228, 1994.
✓	Saloheimo M, <i>et al.</i> , "EGIII, a new endoglucanase from <i>Trichoderma reesei</i> : the characterization of both gene and enzyme," Gene, 63:11-22, 1988.
✓	Saloheimo, Markku <i>et al.</i> "cDNA cloning of a <i>Trichoderma reesei</i> cellulase and demonstration of endoglucanase activity by expression in yeast," Eur. J. Biochem. vol. 249, pp. 584-591, 1997.
	*Sambrook <i>et al.</i> , MOLECULAR CLONING: A LABORATORY MANUAL (Second Edition), Cold Spring Harbor Press, Plainview, N.Y., 1989.
✓	Schulein, Martin, "Cellulases of <i>Trichoderma reesei</i> ," Methods Enzymol., 160, 25, pp. 234-243, 1988.
✓	Scopes, Robert <i>et al.</i> "Purification of All Glycolytic Enzymes from One Muscle Extract," Methods Enzymol. 90: 479-91, 1982.
✓	Shoemaker, S., <i>et al.</i> , "Molecular Cloning of Exo-Cellobiohydrolase I Derived from <i>Trichoderma Reesei</i> Strain L27," Bio/Technology, pp. 691-696, 1983.
<i>mm</i>	Spilliaert Remi, <i>et al.</i> , "Cloning and sequencing of a <i>Rhodothermus marinus</i> gene, <i>bglA</i> , coding for a thermostable β -glucanase and its expression in <i>Escherichia coli</i> ," Eur J Biochem. 224(3):923-30, 1994.

Examiner <i>mm</i>	Date Considered <i>2/2/03</i>

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Page 6 of 7	Date of this Submission: January 30, 2003	

OTHER DOCUMENTS

Examiner's	
Initials	Author, Title, Date, Pertinent Pages, etc.
mmr	Stahlberg, Jerry et al., "A New Model for Enzymatic Hydrolysis of Cellulose Based on the Two-Domain Structure of Cellobiohydrolase I," Bio/Technol. 9:286-290, 1991.
	*Strathern et al., eds. The Molecular Biology of the Yeast Saccharomyces, 1984. Page Nos 2
mmr	Suurnakki, A. et al., "Trichoderma reesei cellulases and their core domains in the hydrolysis and modification of chemical pulp," Cellulose 7:189-209, 2000.
	*Tilbeurgh, H. et al., FEBS Lett. 16:215, 1984. Page No-5.
mmr	Takashima, Shou et al., "Molecular Cloning and Expression of the Novel Fungal β -Glucosidase Genes from <i>Humicola grisea</i> and <i>Trichoderma reesei</i> ," J. Biochem. vol. 125, pp. 728-736, 1999.
	Teeri, Tuula T., et al. "Homologous domains in <i>Trichoderma reesei</i> cellulosytic enzymes: gene sequence and expression of cellobiohydrolase II," Gene, 51:43-52, 1987.
	Timberlake, William E. et al., "Organization of a Gene Cluster Expressed Specifically in the Asexual Spores of <i>A. nidulans</i> ," Cell, vol. 1, pp. 29-37, 1981.
	Tomaz, Candida et al., "Studies on the chromatographic fractionation of <i>Trichoderma reesei</i> cellulases by hydrophobic interaction," J. Chromatography A 865:123-128, 1999.
	Tomme, Peter et al., "Studies of the cellulosytic system of <i>Trichoderma reesei</i> QM 9414," Eur. J. Biochem. 170:575-581, 1988.
	Tormo, Jose et al., "Crystal structure of a bacterial family-III cellulose-binding domain: a general mechanism for attachment to cellulose," EMBO J. vol. 15, no. 21, pp. 5739-5751, 1996.
	Tyndall, R.M., "Improving the Softness and Surface Appearance of Cotton Fabrics and Garments by Treatment with Cellulase Enzymes," Textile Chemist and Colorist 24:23-26, 1992.
	Valentino, S.J. et al. "Codon optimization of xylanase gene <i>xynB</i> from the thermophilic bacterium <i>Dictyoglomus thermophilum</i> for expression in the filamentous fungus <i>Trichoderma reesei</i> ," FEMS Microbiology Letters, 190: 13-19, 2000.
	Van Rensburg, Pierre et al., "Engineering Yeast for Efficient Cellulose Degradation," Yeast, vol. 14, pp. 67-76, 1998.
	Verhoeyen, Martine et al., "Reshaping Human Antibodies: Grafting an Antilysozyme Activity," Science, vol. 239, pp. 1534-1536, 1988.
	Warrington, J.A., et al. "A Radiation Hybrid Map of 18 Growth Factor, Growth Factor Receptor, Hormone Receptor, or Neurotransmitter Receptor Genes on the Distal Region of the Long Arm of Chromosome 5," Genomics, vol. 13, pp. 803-808, 1992.
	Wells, J.A. et al., "Importance of hydrogen-bond formation in stabilizing the transition state of subtilisin," Phil. Trans. R. Soc. London A, vol. 317, pp. 415-423, 1986.
mmr	Wells, James A. et al., "Cassette mutagenesis: an efficient method for generation of multiple mutations at defined sites," Gene, vol. 34, pp. 315-323, 1985.

Examiner

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2/2/03

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